

## CLIMATOLOGICAL DATA FOR AUGUST, 1911.

## DISTRICT NO. 11, CALIFORNIA.

Prof. ALEXANDER G. McADIE, District Editor.

## GENERAL SUMMARY.

August was both cool and dry. Regarding temperature, it may be said that the present month was one in which the usual high afternoon temperatures did not occur. The cause is not apparent, but is probably connected with some general condition affecting the whole Pacific slope. There was considerable cloudiness and less sunshine than usual. The month is normally one of little rain and much sunshine. This month there was less rain than in any month since records have been kept. August, 1910, was a dry August, but August, 1911, surpassed it in this respect. Last year 87 per cent of the stations reported no rain during the month; while this year 96 per cent of the stations made the same report.

Notwithstanding the dryness, the month was on the whole a pleasant one. There was a good supply of water, and visitors and tourists were able to get into the mountains and view waterfalls running full, which usually at this time of year show a marked decrease in the volume of water moving. The present month was in marked contrast with the same month last year. Then the early stoppage of the rains and the limited water supply caused lower stages in the rivers and drier water-courses than had been known for many years. Last year the waterfalls ran dry at an early date and roads were unusually dusty. Snow was found only at elevations of 12,000 feet or above, whereas this year snow was in sight at elevations of 10,000 feet.

The weather was favorable from an agricultural standpoint and fruit ripened nicely, though somewhat late. It is reported by certain orchardists that there is less sugar in the fruit than in other years.

The month was a quiet month and there were few storms. The usual summer depression existed over the valley of the Colorado, and from August 22 to August 26 conditions were favorable for afternoon thunderstorms in the southeastern portion of the State. There were, however, no well-marked Sonora storms. On the other hand, none of the northern lows came south.

## TEMPERATURE.

The mean temperature for the State was  $2^{\circ}$  below the normal. The following table gives the mean temperature for California during the time for which such records have been kept:

Year.	Mean.	Depart- ture.	Year.	Mean.	Depart- ture.
	$^{\circ}F.$	$^{\circ}F.$		$^{\circ}F.$	$^{\circ}F.$
1897.....	73.9	+1.8	1905.....	73.4	+1.3
1898.....	74.5	+2.4	1906.....	73.6	+1.5
1899.....	70.8	-1.3	1907.....	71.0	-1.1
1900.....	71.0	-1.1	1908.....	73.3	+1.2
1901.....	75.6	+3.5	1909.....	72.1	0.0
1902.....	71.8	-1.3	1910.....	72.5	+0.4
1903.....	72.6	+0.5	1911.....	70.1	-2.0
1904.....	73.9	+1.8			

The highest mean temperature was  $96.6^{\circ}$  at Bagdad, and nearly all the stations in the Colorado Desert had mean temperatures for the month exceeding  $90^{\circ}$ . The lowest mean temperature was  $52.4^{\circ}$  at Point Reyes Light. Many of the stations along the immediate coast had mean temperatures approximating  $55^{\circ}$ . This shows the controlling influence of the ocean. The mean temperature at Eureka was  $55.8^{\circ}$ ; at San Francisco,  $56.6^{\circ}$ ; at Monterey,  $58.6^{\circ}$ ; at Point Lobos,  $55^{\circ}$ ; and at the Southeast Farallon, which perhaps is the most significant value of all, inasmuch as the station is practically a rock in the sea,  $53.8^{\circ}$ . It is interesting to note that the mean temperature of Tamarack, elevation 8,000 feet, was  $54^{\circ}$ , or practically the same as the ocean.

The highest temperature of the month was  $114^{\circ}$ , and occurred at Mammoth Tank on the 19th and also at Heber and Indio on the 30th. Last year the highest temperature was  $120^{\circ}$ . It may be noted in passing that temperatures as high as  $130^{\circ}$  have been recorded in the Salton Desert section during the month of August.

The lowest temperature was  $28^{\circ}$ , and occurred at Sierraville on the 15th. This is  $8^{\circ}$  higher than the lowest temperature recorded during August, 1910.

## PRECIPITATION.

The average monthly precipitation for California for August is as follows:

Years.	Mean.	Depart- ture.	Years.	Mean.	Depart- ture.
	Inch.	Inch.		Inch.	Inch.
1897.....	0.03	-0.04	1905.....	0.03	-0.04
1898.....	.02	-.05	1906.....	.13	+.06
1899.....	.11	+.04	1907.....	.11	+.04
1900.....	.02	-.05	1908.....	.12	+.05
1901.....	.12	+.05	1909.....	.19	+.12
1902.....	.06	-.01	1910.....	.01	-.06
1903.....	.02	-.05	1911.....	.00	-.07
1904.....	.17	+.10			

The month, as stated above, will go into history as the driest on record. The greatest monthly rainfall was 0.08 of an inch at Eureka. This year there was practically no rain in the southeastern portion of the State, whereas last year there were some heavy showers. The heaviest 24-hour rainfall was 0.05 of an inch at Eureka.

## SUNSHINE.

The following table gives the total hours of sunshine and percentages of the possible:

Stations.	Hours.	Per cent of possible.	Stations.	Hours.	Per cent of possible.
Eureka.....	142	33	Sacramento.....	382	90
Fresno.....	419	100	San Diego.....	322	78
Los Angeles.....	343	83	San Francisco.....	200	48
Mount Tamalpais.....	408	97	San Jose.....	340	81
Red Bluff.....	422	99	San Luis Obispo.....	327	78

There was less sunshine this August than in August, 1910, the difference being greatest at the coast stations.

#### LOCAL STORMS.

Thunderstorms occurred at Campo on the 18th, at Eastpark on the 3d, and at Tamarack on the 26th and 28th.

#### NOTES ON THE RIVERS OF THE SACRAMENTO AND SAN JOAQUIN WATERSHEDS FOR AUGUST, 1911.

By N. R. TAYLOR, Local Forecaster.

*Sacramento watershed.*—The Sacramento River fell steadily but slowly during the month, and its average stage showed little departure from that usually maintained in August. It was, however, about 1 foot higher than during the corresponding month of 1910. The following average stages from the more important points in this stream are quoted: Kennett, 0.4 foot; Red Bluff, 1.3 feet; Colusa, 1.9 feet; Knights Landing, 1 foot; and Sacramento city, 6.8 feet.

The American River fell slowly, with only 1 foot between the highest and lowest stages. It averaged, at Folsom, 2.5 feet, which is the highest for any August since that of 1907.

The rivers of the Feather-Yuba territory, while considerably higher than during the preceding August, were practically normal. At Marysville the Yuba averaged 7.7 feet, which is 1.6 feet higher than the average of August of 1910. The Feather, at Oroville, averaged 1.5 feet, which is 0.7 foot above that of the preceding August.

*San Joaquin watershed.*—All streams in the drainage basin of the San Joaquin Valley carried more water than for any August since that of 1907. This was especially so of the San Joaquin River itself below the mouth of the Merced. At Lathrop the river maintained a stage of over 10 feet until the middle of the second decade, and the range at this point, between 13.8 feet on the 1st and 2.3 feet on the 31st, is the greatest that has ever occurred in any summer month since records have been kept. The average stage at San Joaquin bridge, near Lathrop, was 7 feet, which is 6 feet above that of the corresponding month in 1910.

Beginning with about October 1 a new river gage will be established on the Feather River at Nicolaus, which is 1 mile below the mouth of the Bear River, and about 10 miles above the junction of the Feather and Sacramento Rivers.

#### REFLECTION OF FOG SIGNALS AT POINT REYES LIGHT, CAL.

By JAMES JONES, Observer, Weather Bureau.

Lying directly across the course of coastwise craft, with its steep cliffs and jagged rocks on the south and a long stretch of sand beach on the north, Point Reyes is one of the most dangerous points on the Pacific coast of the United States. It is shrouded in dense fog 111 days out of the year, average for 18 years, and during the months of July and August fog prevails more than half the time. The average number of foggy days for August, the foggiest month, is 19.

During the year ending July 1, 1911, fog was the cause of the American schooner *Annie E. Smale* and the American steamship *Tallac* going ashore on Point

Reyes, and of a disastrous collision between the American steamship *Beaver* and the Norwegian steamship *Selja*, in which the latter was sunk off the same point. Three lives were lost in these accidents, in addition to property worth nearly \$1,000,000. From the evidence at hand it seems that in all of these cases the accidents were due either to inaudibility of fog signals or to inability to properly locate the signals when heard.

In a comprehensive article on "Fog," in the Climatology of California, Prof. McAdie points out the importance of any increase in our knowledge of the dispersion and aberration of fog signals, and the accidents previously referred to accentuate the need of experimental work in this direction. If such work has been delayed through underestimation of the extent of variations in audibility due to stratification of the atmosphere, the following description of effects noted here may serve as an incentive to further study of the subject.

On September 1, 1910, the fog signal at Point Reyes was changed from a steam whistle to a compressed air siren, the amplifying horn of which is placed so as to project the sound out over the ocean where there is a free expanse of water with no land or rocks whatever to interfere with the sound waves. Yet, since the installation of the siren, it is not uncommon for a loud, clear echo to be thrown back, from a fraction of a second to eight seconds after the siren sounds; showing that there is a very effective reflecting surface distant from a few feet up to about 4,400 feet from the siren.

The fact that a sharply defined boundary surface between two air columns of different temperatures will reflect and refract sound waves is well known. Now, if the echo in question is due to reflection from such a surface it would indicate the proximity of a mass of air the temperature of which differs from that in which the fog prevails, and it is an observed fact that, so far, in every instance where the echo has been heard the fog has cleared away, at least temporarily, within a short time thereafter, though it may have continued for days before. One of the quickest changes occurred on August 26, 1911. Dense fog came on during the early morning. At 4.38 p. m. the first echo was heard, eight seconds after the blast, which, since the sound must travel out and back again, would locate the reflecting surface at a distance of about 4,400 feet. The signal continued to operate and the echo to be heard until 4.45 p. m., when the fog cleared away in an instant, leaving only a few scattered patches of light fog over the ocean. By 5.20 p. m. the fog had disappeared entirely.

But the main point, which it is the purpose of these notes to emphasize and which should be brought to the attention of mariners, is the effectiveness of these reflecting surfaces in the free air. The echo of the fog signal that comes back from out over the ocean is as clear and sharp as any echo from other surfaces ever noted by the writer. The warning sounds, after suffering such great reflection, must, if heard at all beyond the reflecting surface, be very difficult to detect. Masters of vessels should, therefore, approach with caution dangerous points at which there are fog-signal stations, and Point Reyes in particular. Too much reliance should not be placed in the audibility of the fog signals, for, though heard at a certain distance normally, they may be entirely inaudible even at a much shorter distance under abnormal atmospheric conditions.

TABLE 1.—Climatological data for August, 1911. District No. 11, California.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Oregon.</i>																				
Klamath Agency	Klamath	4,169	3	55.4	.....	91	29	24	25	66	0	.....	0	0	0	29	2	0	nw.	Edson C. Watson.
Klamath Falls	do	4,100	22	.....	91	29	24	25	66	0	.....	0	0	0	31	0	0	0	w.	W. H. Heileman.
Lakeview	Lake	4,825	28	.....	98	28	34	18	47	0	.....	0	0	0	31	0	0	0	e.	Bert Rice.
Merrill	Klamath	4,070	5	61.0	.....	92	30	29	16	51	0	.....	0	0	0	29	1	0	0	Mrs. Agnes Ritchson.
Yonna	do	4,146	4	59.4	.....	92	30	29	16	51	0	.....	0	0	0	20	11	0	w.	Jacob Ruecke.
<i>California.</i>																				
Alameda	Alameda	1	62.6	.....	83	20	52	8†	30	0.00	.....	0.00	0	0	4	27	0	nw.	Chas. E. Sears.	
Alturas	Modoc	4,460	7	63.0	.....	96	30	30	16	61	0.00	.....	0.00	0	0	31	0	0	sw.	Prof. C. B. Towle.
Angiola	Tulare	208	11	76.2	-1.2	107	1	48	18	53	0.00	0.00	0.00	0	0	31	0	0	w.	Santa Fe Co.
Autioch**	Contra Costa	46	32	82.0	+ 7.5	97	11	61	29	.....	0.00	-0.01	0.00	0	0	31	0	0	e.	Southern Pacific Co.
Aptos **	Santa Cruz	102	26	61.4	0.0	80	20	51	16	.....	0.00	-0.05	0.00	0	0	27	0	4	nw.	Do.
Arrowhead Springs	San Bernardino	2,000	2	79.7	.....	102	31	49	27	34	0.00	.....	0.00	0	0	0	0	0	sw.	Dr. E. Soegaard.
Auburn	Placer	1,360	40	72.4	-3.5	98	1†	45	4	49	0.00	-0.02	0.00	0	0	31	0	0	w.	Southern Pacific Co.
Avalon	Los Angeles	1	65.6	.....	78	20	57	9†	15	0.00	.....	0.00	0	0	0	31	0	0	s.	T. S. Manning.
Azusa	do	540	9	75.4	.....	107	31	47	13	55	0.00	-0.09	0.00	0	0	31	0	0	sw.	A. P. Griffith.
Bagdad	San Bernardino	784	8	96.6	-8.3	112	19	80	27	25	0.00	.....	0.00	0	0	31	0	0	n.	Santa Fe Co.
Bakersfield	Kern	404	22	76.4	-8.3	99	1	54	28	35	0.00	-0.01	0.00	0	0	31	0	0	sw.	E. L. White.
Barstow	San Bernardino	2,105	8	84.6	.....	112	18	53	11	50	0.00	-0.12	0.00	0	0	31	0	0	n.	State University.
Berkeley	Alameda	317	24	59.0	-1.9	79	19†	50	15	27	0.00	-0.07	0.00	0	0	6	15	10	sw.	Southern Pacific Co.
Biggs **	Butte	98	12	71.4	-2.6	93	21	58	5†	.....	0.00	-0.02	0.00	0	0	31	0	0	s.	W. A. Chalfant.
Bishop	Inyo	4,450	16	.....	78	19	36	12	37	0.00	.....	0.00	0	0	0	0	0	0	w.	Paul E. Lodge.
Bishop Creek	do	8,500	1	59.0	.....	98	24	41	15†	49	0.00	.....	0.00	0	0	30	0	1	nw.	Victor Hope.
Blocksburg	Humboldt	1,700	5	65.8	+ 2.0	88	24	41	20	37	0.00	-0.16	0.00	0	0	31	0	0	sw.	Southern Pacific Co.
Blus Canon	Placer	4,695	12	64.7	.....	98	24	41	20	37	0.00	.....	0.00	0	0	0	0	0	n.	Ray W. Ward.
Blythe	Riverside	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
Branscomb	Mendocino	2,000	11	63.8	.....	93	24	36	11†	43	0.00	-0.02	0.00	0	0	29	2	0	n.	A. J. Haun.
Brawley	Imperial	105	2	91.0 <sup>a</sup>	.....	111	19	65	8†	41	0.00	.....	0.00	0	0	0	0	0	s.	M. D. Witter.
Brush Creek	Butte	2,149	7	71.4	.....	100	22	42	26†	54	0.00	.....	0.00	0	0	31	0	0	s.	Cal. Gas & Elec. Co.
Burney	Shasta	3,300	1	61.4	.....	90	24†	32	16	51	0.00	.....	0.00	0	0	29	2	0	sw.	Mrs. M. D. Chambers.
Cleixco	Imperial	0	6	90.8	.....	112	30	65	4	41	0.00	.....	0.00	0	0	24	7	0	se.	J. E. Peck.
Caliente **	Kern	1,290	35	88.5	+ 5.4	104	3†	70	5	.....	0.00	-0.01	0.00	0	0	31	0	0	n.	Southern Pacific Co.
Calistoga **	Napa	363	39	71.2	+ 0.9	100	2†	50	31	.....	0.00	-0.01	0.00	0	0	31	0	0	sw.	Do.
Campbell	Santa Clara	217	14	61.6	-2.5	88	20	39	16	47	0.00	-0.04	0.00	0	0	31	0	0	w.	F. M. Righter.
Camptonville (near)	Yuba	3,500	4	74.4	.....	100	2	48	15	46	0.00	.....	0.00	0	0	31	0	0	n.	Cal. Gas & Elec. Co.
Cedarville	Modoc	4,675	17	67.4	-0.5	89	27	43	10	43	0.00	-0.26	0.00	0	0	30	1	0	sw.	T. H. Johnstone.
Chico	Butte	189	41	74.8	-6.7	102	1	50	8†	46	0.00	-0.03	0.00	0	0	31	0	0	s.	G. H. Stephenson.
China Flat	Humboldt	600	2	72.8	.....	104	25	45	16	52	0.00	.....	0.00	0	0	30	1	0	s.	O. I. Westerburg.
Chino **	San Bernardino	714	19	84.4	+ 9.2	105	17	68	12	.....	0.00	0.00	0.00	0	0	30	0	1	e.	Southern Pacific Co.
Cisco **	Placer	5,939	40	61.0	-0.8	84	1	42	11†	34	0.00	-0.02	0.00	0	0	31	0	0	sw.	Do.
Claremont	Los Angeles	1,200	19	74.6	+ 4.0	107	31	49	7†	44	T.	-0.05	T.	0	0	21	9	1	w.	F. P. Brackett.
Cloverdale	Sonoma	340	8	62.3	.....	97	21	41	12	59	0.00	.....	0.00	0	0	31	0	0	n.	John O. Ogle.
Colfax	Placer	2,421	40	69.7	-6.8	91	1	49	15	32	0.00	-0.02	0.00	0	0	31	0	0	n.	Southern Pacific Co.
Colusa	Colusa	60	8	70.8	.....	94	24	50	10†	40	0.00	0.00	0.00	0	0	31	0	0	s.	C. D. McCormish.
Corning **	Tehama	277	25	84.3	+ 3.2	101	24	66	28	.....	0.00	-0.03	0.00	0	0	26	5	0	s.	Southern Pacific Co.
Cuyamaca	San Diego	4,677	12	71.0	+ 6.5	91	17†	48	26	34	T.	-0.07	T.	0	0	19	11	1	e.	L. L. Macquarie.
Daunt	Tulare	4,000	4	69.1	.....	91	18†	49	11	41	0.00	.....	0.00	0	0	31	0	0	n.	D. L. Wishon.
Davisville	Yolo	51	39	68.2	-5.9	99	30	37	18†	58	0.00	-0.01	0.00	0	0	31	0	0	sw.	S. H. Beckett.
Deer Creek	Nevada	3,700	4	61.4	.....	88	22†	34	20	52	0.00	.....	0.00	0	0	31	0	0	w.	Cal. Gas & Elec. Co.
Del Monte	Monterey	26	61.7	.....	72	21†	48	16	20	.....	0.00	.....	0.00	0	0	25	0	6	n.	H. R. Warner.
Delta	Shasta	1,138	26	71.5	-4.8	99	24†	48	3†	47	0.00	-0.01	0.00	0	0	31	0	0	s.	Southern Pacific Co.
Denair	Stanislaus	126	11	71.2	-5.2	97	1†	47	11	48	0.00	0.00	0.00	0	0	31	0	0	n.	Santa Fe Co.
Dobbins	Yuba	1,650	7	74.6	.....	98	30	54	12†	38	0.00	.....	0.00	0	0	28	3	0	s.	Cal. Gas & Elec. Co.
Dudleys	Mariposa	3,000	2	63.5	.....	93	31	31	21	50	0.00	.....	0.00	0	0	30	1	0	nw.	W. H. Dudley.
Dunnigan **	Yolo	65	34	83.6	+ 3.9	100	1†	58	11	.....	0.00	-0.02	0.00	0	0	30	0	1	s.	Southern Pacific Co.
Dunsmuir **	Siskiyou	2,285	22	65.8	-1.1	99	1	47	12	.....	0.00	-0.10	0.00	0	0	31	0	0	n.	Do.
Durham	Butte	160	16	73.4	-2.3	99	24†	47	16†	47	0.00	-0.03	0.00	0	0	31	0	1	s.	R. W. Durham.
El Cajon	San Diego	482	12	73.2	+ 2.2	103	30	49	16	52	0.00	-0.11	0.00	0	0	31	0	0	sw.	H. H. Kessler.
Electra	Amador	725	7	74.5	.....	102	2†	45	15	50	0.00	.....	0.00	0	0	31	0	0	n.	Cal. Gas & Elec. Co.
Elsinore	Riverside	1,234	16	75.4	-1.7	111	31	43	12	59	0.00	-0.05	0.00	0	0	29	1	1	w.	A. F. Schult.
Emigrant Gap	Placer	5,230	37	67.6	+ 1.7	86	1†	47	12	32	0.00	-0.04	0.00	0	0	31	0	0	n.	Southern Pacific Co.
Escondido	San Diego	657	17	72.8	+ 7.0	103	31	46	13†	51	0.00	0.00	0.00	0	0	18	13	0	w.	A. Moon.
Eureka	Humboldt	64	25	55.8	0.0	65	19	48	16	16	0.08	-0.06	0.05	0	4	0	19	12	n.	U. S. Weather Bureau.
Farmington **	San Joaquin	111	32	77.0	+ 0.8	96	21†	55	27	.....	0.00	0.00	0.00	0	0	31	0	0	nw.	Southern Pacific Co.
Folsom	Sacramento	252	39	72.8	-6.6	98	31	50	10	43	0.00	-0.03	0.00	0	0	31	0	0	s.	F. O. Hutton.
Fordyce Dam	Nevada	6,500	16	57.0	.....	79	29	38	5†	36	0.00	-0.38	0.00	0	0	31	0	0	sw.	E. E. Roening.
Fouts Springs																				

TABLE 1.—Climatological data for August, 1911. District No. 11—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days 0.01 inch or more.	Number of partly cloudy days.	Number of clear days.		
<i>California—Continued.</i>																			
Jamestown.....	Tuolumne.	1,471	8	72.0	.....	96	1†	48	14†	42	0.00	.....	0.00	0	0	31	0	0	.....
King City.....	Monterey.	333	24	66.2	-0.2	100	30	35	27	60	0.00	0.00	0.00	0	0	31	0	0	Southern Pacific Co.
Lake Eleanor.....	Tuolumne.	4,700	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	0	O. J. Todd.
La Porte.....	Plumas.	5,000	17	60.4	+0.6	85	24	38	20	40	0.00	-0.22	0.00	0	0	31	0	0	Chas. W. Hendel.
Le Grand.....	Mered.	255	11	73.3	-2.9	101	21†	47	17	52	0.00	0.00	0.00	0	0	31	0	0	Santa Fe Co.
Lemon Cove.....	Tulare.	600	16	79.4	-0.5	105	28	52	25	49	0.00	0.00	0.00	0	0	31	0	0	G. W. Sandidge.
Lick Observatory.....	Santa Clara.	4,209	22	66.9	-2.2	83	30	51	21	28	0.00	-0.03	0.00	0	0	31	0	0	The Director.
Livermore.....	Alameda.	485	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	0	E. G. Still.
Lodi.....	San Joaquin.	45	29	67.6	-5.4	92	21†	45	15†	42	0.00	-0.05	0.00	0	0	31	0	0	Ezra Fiske.
Lone Pine.....	Inyo.	2,728	6	72.2	.....	99	1†	49	46	40	0.00	0.00	0.00	0	0	31	0	0	G. F. Marsh.
Long Valley.....	Lassen.	4,400	2	68.2	.....	92	30	38	20	48	0.00	0.00	0.00	0	0	22	7	2	A. G. Evans.
Los Angeles.....	Los Angeles.	293	34	70.6	+2.0	95	18	55	12	32	0.00	-0.03	0.00	0	0	22	8	1	U. S. Weather Bureau.
Los Banos **.....	Merced.	121	24	73.3	-6.0	96	1	56	26	32	0.00	0.00	0.00	0	0	30	0	1	Southern Pacific Co.
Los Gatos.....	Santa Clara.	600	24	64.4	-2.8	93	20	45	15†	44	0.00	-0.05	0.00	0	0	31	0	0	F. H. McCullagh.
McCloud.....	Siskiyou.	3,410	1	60.4	.....	83	24	34	16	40	0.00	0.00	0.00	0	0	31	0	0	F. F. Spencer.
Macdoel.....	..... do.	4,258	4	60.3	.....	91	30	32	20	49	0.00	0.00	0.00	0	0	30	1	0	Butte Valley L. Co.
Madelaine.....	Lassen.	5,270	2	61.2	.....	87	29	31	16	51	0.00	0.00	0.00	0	0	31	0	0	J. H. Williams.
Magalia.....	Butte.	2,321	7	69.2	.....	94	1†	45	13†	45	0.00	0.00	0.00	0	0	31	0	0	Butte C. R. R. Co.
Mammoth Tank.....	Imperial.	257	33	92.8	-4.0	114	19	69	5†	38	0.00	-0.23	0.00	0	0	28	1	2	Southern Pacific Co.
Marysville.....	Yuba.	67	40	71.6	-7.3	97	20†	48	10†	46	0.00	0.00	0.00	0	0	31	0	0	Do.
Mecca.....	Riverside.	-185	5	89.7	.....	113	30	63	4	40	0.00	0.00	0.00	0	0	24	7	0	E. A. Palmer.
Menlo Park **.....	San Mateo.	64	33	66.5	-0.2	89	19	51	30	0.00	-0.04	0.00	0	0	31	0	0	Southern Pacific Co.	
Merced.....	Merced.	173	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	0	Santa Fe Co.	
Mill Creek (1).....	Amador.	4	66.5	.....	.....	89	31	48	22	40	0.00	0.00	0.00	0	0	31	0	0	Cal. Gas & Elec. Co.
Milton (near).....	Calaveras.	660	20	73.5	-3.0	97	21	51	5†	38	0.00	-0.01	0.00	0	0	26	5	0	J. H. Southwick.
Modesto **.....	Stanislaus.	90	39	82.5	+2.8	97	1†	65	10†	0.00	0.00	0.00	0	0	31	0	0	Southern Pacific Co.	
Mojave.....	Kern.	2,751	34	73.4	+0.8	94	30	53	15	34	0.00	-0.02	0.00	0	0	31	0	0	C. E. Prindle.
Mokelumne Hill.....	Calaveras.	1,560	18	73.4	+0.8	94	30	53	15	34	0.00	-0.02	0.00	0	0	31	0	0	Herbert Lathrop.
Mono Ranch.....	Ventura.	3,210	5	66.4	.....	95	31	46	12†	45	0.00	0.00	0.00	0	0	31	0	0	I. E. Debay.
Montague.....	Siskiyou.	2,450	23	69.6	-8.1	95	24†	43	21	47	0.00	-0.15	0.00	0	0	24	7	0	Southern Pacific Co.
Monterey **.....	Monterey.	15	46	58.6	-3.3	70	10†	46	3†	0.00	-0.03	0.00	0	0	31	0	0	John C. Knecht.	
Mount Tamalpais.....	Kern.	4,500	12	73.4	.....	94	30	53	15	34	0.00	-0.02	0.00	0	0	31	0	0	U. S. Weather Bureau.
Napa City.....	Marin.	2,375	12	66.1	+0.2	89	30	44	14	26	0.00	-0.01	0.00	0	0	29	2	0	Alex. Hull.
Napa (S. H.).....	Napa.	20	34	61.6	-3.4	88	30	45	16†	42	0.00	-0.03	0.00	0	4	27	0	0	W. H. Martin.
Needles.....	San Bernardino.	477	19	92.2	-0.1	110	19†	73	7	32	0.00	-0.22	0.00	0	0	30	0	1	Santa Fe Co.
Nellie.....	San Diego.	5,350	2	58.1d	.....	91	31	46	6†	44	0.00	0.00	0.00	0	0	31	0	0	T. O. Bailey.
Nevada City.....	Nevada.	2,580	19	67.0	0.0	95	21†	38	20	56	0.00	-0.05	0.00	0	0	31	0	0	S. W. Marsh.
Newcastle.....	Placer.	970	18	.....	.....	86	19	56	28	25	T.	-0.03	T.	0	0	7	15	9	G. D. Kellogg.
Newhall **.....	Los Angeles.	1,200	34	76.8	-0.5	108	31	60	2†	.....	0.00	-0.03	0.00	0	0	29	0	2	Se. E. S. Wangenheim.
Newman.....	Stanislaus.	91	22	77.7	-4.1	105	1	58	17	35	0.00	-0.01	0.00	0	0	31	0	0	Cal. Gas & Elec. Co.
Nimshue.....	Butte.	2,500	7	69.2	.....	98	3	46	18	41	0.00	0.00	0.00	0	0	31	0	0	J. R. McIntosh.
North Bloomfield.....	Nevada.	3,200	14	71.6	+1.7	90	20†	51	24	39	0.00	-0.02	0.00	0	0	29	2	0	U. S. Forest Service.
North Fork.....	Madera.	3,000	7	69.5	.....	96	31	42	22	50	0.00	0.00	0.00	0	0	30	0	1	Southern Pacific Co.
Oakdale **.....	Stanislaus.	156	17	72.5	-3.8	98	21†	55	5	0.00	-0.02	0.00	0	0	31	0	0	U. S. Forest Service.	
Oak Grove.....	San Diego.	1	70.7	.....	104	31	40	4†	55	0.00	0.00	0.00	0	0	30	1	0	Cabot Observatory.	
Oakland.....	Alameda.	36	35	60.2	-1.1	80	20	51	6	26	T.	-0.03	T.	0	0	7	15	9	H. D. Brodie.
Oceanside.....	San Diego.	1	71.3	.....	86	19	56	28	25	T.	-0.03	T.	0	0	22	9	0	W. H. Duncan.	
Ojai Valley.....	Ventura.	900	5	70.6	.....	108	31	44	23†	52	0.00	0.00	0.00	0	0	29	2	0	U. S. Reclamation Service.
Orland.....	Glenn.	254	29	76.2	-8	105	24	50	14	46	0.00	-0.02	0.00	0	0	29	2	0	F. T. Hale.
Orleans.....	Humboldt.	520	8	76.6	.....	108	24	46	15	53	0.00	0.00	0.00	0	0	31	0	0	E. D. Fairchild.
Oroville (near).....	Butte.	250	27	74.0	-5.3	106	17	48	29	51	0.00	-0.02	0.00	0	0	30	1	0	Western Pacific Co.
Palermo.....	do.	213	20	74.2	-2.9	106	17	48	29	51	0.00	-0.06	0.00	0	0	21	10	5	Southern Pacific Co.
Palm Springs **.....	Riverside.	584	22	89.5	-3.7	112	16†	73	4†	0.00	-0.19	0.00	0	0	26	5	0	E. D. Sorver.	
Pasadena.....	Los Angeles.	827	21	69.9	-3.6	101	31	45	12	46	0.00	-0.02	0.00	0	0	31	0	0	Dr. F. W. Sawyer.
Paso Robles.....	San Luis Obispo.	800	24	67.6	-3.5	106	1	36	26	61	0.00	-0.12	0.00	0	0	30	1	0	E. H. Farnell.
Peachland.....	Sonoma.	190	15	62.4	-0.9	93	20	38	15	48	0.01	-0.05	0.01	0	1	13	18	0	Tuolumne Water Power Co.
Penstock Camp.....	Tuolumne.	3,750	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	31	0	0	A. Baring-Gould.
Placerville.....	El Dorado.	1,875	22	69.0	-0.8	94	1†	44	16†	46	0.00	-0.02	0.00	0	0	28	2	1	John Hyslop.
Point Lobos.....	San Francisco.	250	18	55.0	-2.0	91	20	48	6	20	T.	-0.06	T.	0	0	8	5	18	w.
Point Reyes.....	Marin.	490	19	54.2	-2.1	58	19	47	6	9	0.00	-0.13	0.00	0	0	5	21	0	U. S. Weather Bureau.
Porterville.....	Tulare.	494	22	78.2	-6.6	103	21†	55	5†	45	0.00	-0.01	0.00	0	0	31	0	0	Leslie McAuliff.
Quincy.....	Plumas.	3,400	16	59.7	-3.9	98	29	31	20†	52	0.00	-0.17	0.00	0	0	31	0	0	U. S. Forest Service.
Red Bluff.....	Teheana.	307	40	74.6	-4.4	102	24	54	15	40	0.00	-0.02	0.00	0	0	31	0	0	U. S. Weather Bureau.
Redding.....	Shasta.	552	35	.....	.....	74	16†	41	16	33	0.00	0.00	0.00	0	0	12	16	3	nw.
Redlands.....	San Bernardino.	1,352	18	76.2	-1.3	106	31	51	11	46	T.	-0.52	T.	0	0	28	2	1	P. W. Moore.
Reedley.....	Fresno.	347	11	75.7	-4.3	101	1	52	29	45	0.00	0.00	0.00	0	0	31	0	0	S. Cal. Edison Co.
Rialto (near).....	San Bernardino.	2,250	5	76.2	-4.3	103	31	52	5	36	0.00	0.00	0.00	0	0	28	2	1	J. H.

TABLE 1.—Climatological data for August, 1911. District No. 11—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.							Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.	Number of rainy days, 0.01 inch or more.	Sky.	Precipitation.	
<i>California—Continued.</i>																		
Sierra Madre.....	Los Angeles.....	1,400	14	74.3	+ 2.1	100	31	55	7†	38	0.00	- 0.07	0.00	0	0	31	0	s.
Sierraville.....	Sierra.....	5,000	1	59.7	-	92	29	28	15	59	0.00	-	0.00	0	0	31	0	n.
Sisson.....	Siskiyou.....	3,555	22	61.8	- 5.8	88	31	33	15	48	0.00	- 0.15	0.00	0	0	31	0	n.
Soledad **.....	Monterey.....	188	37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Do.
Southeast Farallon.....	San Francisco.....	30	8	53.8	.....	59	28	48	3	6	T.	.....	T.	0	0	8	4	nw.
Sonora.....	Tuolumne.....	1,825	23	72.4	.....	95	31	52	5†	43	0.00	- 0.05	0.00	0	0	31	0	sw.
Squirrel Inn.....	San Bernardino.....	5,280	1	66.8	.....	89	31	50	13†	31	0.00	.....	0.00	0	0	30	1	s.
Stirling City.....	Butte.....	3,525	7	67.7	.....	92	5†	42	28	50	0.00	.....	0.00	0	0	31	0	se.
Stockton (S. H.).....	San Joaquin.....	23	40	68.8	- 3.7	94	30	50	11†	39	0.00	- 0.01	0.00	0	0	31	0	nw.
Storey.....	Madera.....	296	11	70.4	- 7.0	103	31	41	17	61	0.00	0.00	0.00	0	0	31	0	nw.
Suisun **.....	Solano.....	20	31	72.0	+ 1.3	87	24	61	27	.....	0.00	- 0.04	0.00	0	0	26	1	w.
Summerdale.....	Mariposa.....	5,270	15	64.7	- 0.8	85	31	47	15	32	0.00	- 0.14	0.00	0	0	30	1	s.
Summit.....	Placer.....	7,017	38	54.0	- 6.3	78	27	32	16	39	0.00	- 0.05	0.00	0	0	31	0	sw.
Susaville.....	Lassen.....	4,175	22	63.2	- 7.5	86	30	39	20	40	0.00	- 0.12	0.00	0	0	28	3	se.
Tamarack.....	Alpine.....	8,000	5	54.0	.....	74	20†	32	12†	40	0.00	.....	0.00	0	0	26	5	se.
Tehachapi **.....	Kern.....	3,964	34	78.5	+ 4.0	86	2	66	31	.....	0.00	- 0.11	0.00	0	0	0	0	Do.
Tehama **.....	Tehama.....	220	40	78.6	- 2.7	99	2	66	15†	.....	0.00	- 0.03	0.00	0	0	31	0	Do.
Tejon Rancho.....	Kern.....	1,500	9	72.6	.....	89	1†	57	12†	24	0.00	.....	0.00	0	0	31	0	n.
Three Rivers.....	Tulare.....	S70	1	74.5	.....	102	1	51	15	48	0.00	.....	0.00	0	0	31	0	sw.
Towle.....	Placer.....	3,704	25	66.3	- 2.4	89	31	45	12†	42	0.00	- 0.12	0.00	0	0	31	0	sw.
Tracy **.....	San Joaquin.....	64	31	79.6	+ 2.1	95	3†	60	8	.....	0.00	- 0.01	0.00	0	0	25	6	nw.
Ukiah.....	Mendocino.....	620	18	70.5	- 1.3	111	22	40	15	62	0.00	- 0.01	0.00	0	0	29	2	Do.
Upland.....	San Bernardino.....	1,750	14	73.0	0.0	102	17	48	11	44	0.00	- 0.01	0.00	0	0	31	0	Dr. Geo. McCowen.
Upper Lake.....	Lake.....	1,350	26	72.8	- 0.4	104	30	42	15	52	0.00	- 0.06	0.00	0	0	31	0	A. P. Harwood.
Vacaville.....	Solano.....	175	23	69.5	- 5.7	99	30	45	26	50	0.00	- 0.04	0.00	0	0	31	0	C. M. Hammond.
Valley Springs **.....	Calaveras.....	673	22	75.0	- 3.3	99	1	62	11†	.....	0.00	- 0.01	0.00	0	0	31	0	G. O. Coburn.
Visalia.....	Tulare.....	334	23	73.1	- 5.7	100	21	46	16†	50	0.00	- 0.01	0.00	0	0	30	1	Southern Pacific Co.
Warner Springs.....	San Diego.....	3,185	3	71.8	.....	98	31	45	25	42	0.00	.....	0.00	0	0	31	0	Santa Fe Co.
Wasco.....	Kern.....	336	11	77.9	- 2.1	110	6	44	17	57	0.00	- 0.02	0.00	0	0	0	0	Mrs. F. S. Sandford.
Watsonville.....	Santa Cruz.....	23	15	59.3	- 3.5	85	19	30	15†	46	0.00	0.00	0.00	0	0	7	23	Santa Fe Co.
Weitchpec.....	Humboldt.....	1,700	1	66.0	.....	94	24†	40	15	40	0.00	.....	0.00	0	0	31	0	Spreckels Sugar Co.
Westley **.....	Stanislaus.....	90	22	76.8	- 2.8	95	30	60	10†	.....	0.00	0.00	0.00	0	0	31	0	M. E. Lathrop.
Wheatland.....	Yuba.....	84	24	71.2	- 4.3	94	2†	49	16	40	0.00	- 0.04	0.00	0	0	31	0	Southern Pacific Co.
Willows.....	Glenn.....	136	32	73.0	- 8.6	98	1	49	14	40	0.00	- 0.04	0.00	0	0	28	2	Wm. Lumbard.
Yosemite.....	Mariposa.....	3,945	7	65.8	.....	95	18†	35	19	59	0.00	.....	0.00	0	0	31	0	L. C. Stiles.
																		J. P. Kelly.

\*, b, c, etc., indicate respectively, 1, 2, 3, etc., days missing from the record.

\*\*Temperature extremes are from observed readings of dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for August, 1911. District No. 11, California.*

Stations.	Watershed.	Day of month.																													Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Oregon.																																		
Klamath Agency.	Klamath.																																	0.00
Klamath Falls.	do.																																	0.00
Lakeview.	Pitt.																																	0.00
Long Valley.	do.																																	0.00
Merrill.	Int. drainage																																	0.00
Yonma.	do.																																	0.00
California.																																		
Albertine.	Sacramento.																																	0.00
Aguanga.	Coast.																																	0.00
Alameda.	do.																																	0.00
Alturas.	Sacramento.																																	0.00
Angels Camp.	San Joaquin.																																	0.00
Angiola.	do.																																	0.00
Antioch.	do.																																	0.00
Aptos.	Coast.																																	0.00
Arrowhead Springs.	do.																																	0.00
Auburn.	Sacramento.																																	0.00
Avalon.	Ocean.																																	0.00
Azusa.	Coast.																																	0.00
Bagdad.	Desert.																																	0.00
Bakersfield.	San Joaquin.																																	0.00
Barstow.	Desert.																																	0.00
Bear River.	San Joaquin.																																	0.00
Bear Valley (1).	Sacramento.																																	0.00
Bear Valley (2).	San Joaquin.																																	0.00
Bear Valley Dam.	Coast.																																	0.00
Belotta.	San Joaquin.																																	0.00
Ben Lomond.	Coast.																																	0.00
Berkeley.	do.																																	0.00
Biggs.	Sacramento.																																	0.00
Bishop.	Owens.																																	0.00
Bishop Creek.	do.																																	0.00
Blocksburg.	Coast.																																	0.00
Blue Canon.	Sacramento.																																	0.00
Blythe.	Desert.																																	0.00
Boulder Creek.	Coast.																																	0.00
Brownns Dam.	Sacramento.																																	0.00
Branscomb.	Coast.																																	0.00
Brush Creek.	Sacramento.																																	0.00
Burney.	do.																																	0.00
Butte Valley.	do.																																	0.00
Calexico.	Desert.																																	0.00
Caliente.	do.																																	0.00
Calistoga.	Coast.																																	0.00
Campbell.	do.																																	0.00
Campo.	Sacramento.																																	0.00
Campptonville (near).	M't'n Lakes.																																	0.00
Cedarville.	Sacramento.																																	0.00
Chester.	Sacramento.																																	0.00
Chico.	do.																																	0.00
Chico (near).	do.																																	0.00
China Flat.	Coast.																																	0.00
Chino.	do.																																	0.00
Cisco.	Sacramento.																																	T.
Claremont.	Coast.																																	0.00
Cloverdale.	do.																																	0.00
Colfax.	Sacramento.																																	0.00
Colgate.	do.																																	0.00
Colusa.	do.																																	0.00
Corning.	Coast.																																	T.
Corona.	do.																																	0.00
Cuyamaca.	do.																																	0.00
Daunt.	San Joaquin.																																	0.00
Davisville.	Sacramento.																																	0.00
Deer Creek.	do.</td																																	

TABLE 2.—*Daily precipitation for August, 1911. District No. 11—Continued.*

Stations	Watershed.	Day of month.																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
California—Contd.																																	
Gilroy.....	Coast.....																																0.00
Gilta.....	do.....																															0.00	
Glendora.....	do.....																															0.00	
Glen Ranch.....	do.....																															0.00	
Glenville.....	San Joaquin.....																															0.00	
Glenwood.....	Coast.....																															0.00	
Gold Run.....	Sacramento.....																															0.00	
Gonzales.....	Coast.....																															0.00	
Grass Valley.....	Sacramento.....																															0.00	
Greenville.....	do.....																															0.00	
Gridley.....	do.....																															0.00	
Groveland.....	San Joaquin.....																															0.00	
Guinda.....	Sacramento.....																															0.00	
Hanford.....	San Joaquin.....																															0.00	
Head Dam.....	Sacramento.....																															0.00	
Healdsburg.....	Coast.....																															0.00	
Hearst.....	do.....																															0.00	
Iieber.....	Desert.....																															0.00	
Helen Mine.....	Coast.....																															0.00	
Hesperia.....	Desert.....																															0.00	
Hetch Hetchy.....	San Joaquin.....																															0.00	
Holcomb.....	Coast.....																															0.00	
Hollister.....	do.....																															0.00	
Hornbrook.....	Klamath.....																															0.00	
Hot Springs.....	San Joaquin.....																															0.00	
Hullville.....	Coast.....																															0.00	
Idylwild.....	do.....																															0.00	
Independence.....	Owens.....																															0.00	
Indio.....	Desert.....																															0.00	
Inskip.....	Sacramento.....																															0.00	
Ione.....	San Joaquin.....																															0.00	
Jacksonville.....	do.....																															0.00	
Jamestown.....	do.....																															0.00	
Jenny Lind.....	Coast.....																															0.00	
Jolon.....	do.....																															0.00	
Julian.....	do.....																															0.00	
Kennedy Mine.....	San Joaquin.....																															0.00	
Kennett.....	Sacramento.....																															0.00	
Kentfield.....	Coast.....																															0.00	
Kernville.....	San Joaquin.....																															0.00	
King City.....	Coast.....																															0.00	
Knights Landing.....	Sacramento.....																															0.00	
La Grange.....	San Joaquin.....																															0.00	
Lake Eleanor.....	do.....																															0.00	
Lakeside.....	Coast.....																															0.00	
La Porte.....	Sacramento.....																															0.00	
Lathrop.....	San Joaquin.....																															0.00	
Laurel.....	Coast.....																															0.00	
Laytonville.....	do.....																															0.00	
Le Grand.....	San Joaquin.....																															0.00	
Lemon Cove.....	do.....																															0.00	
Lick Observatory.....	Coast.....																															0.00	
Livermore.....	do.....																															0.00	
Lodi.....	San Joaquin.....																															0.00	
Lone Pine.....	Owens.....																															0.00	
Long Camp.....	San Joaquin.....																															0.00	
Long Valley.....	Moun tain Lakes.....																															0.00	
Lordsburg.....	Coast.....																															0.00	
Los Alamos.....	do.....																															0.00	
Los Angeles.....	San Joaquin.....																															0.00	
Los Banos.....	Coast.....																															0.00	
Los Gatos.....	Sacramento.....																															0.00	
Los Molinos.....	Coast.....																															0.00	
Low Observatory.....	Coast.....																															0.00	
McCloud.....	Sacramento.....																															0.00	
Macdoel.....	Klamath.....																															0.00	
Madeline.....	M'tn Lakes.....																															0.00	
Magalia.....	Sacramento.....																															0.00	
Mammoth Tank.....	Desert.....																															0.00	
Mari posa.....	San Joaquin.....																															0.00	
Marysville.....	Sacramento.....																															0.00	
Mecca.....	Desert.....																															0.00	
Melones.....	Sacramento.....																															0.00	
Menlo Park.....	Coast.....																															0.00	
Meredo.....	San Joaquin.....																															0.00	
Merced Falls.....	do.....																																

TABLE 2.—*Daily precipitation for August, 1911. District No. 11—Continued.*

TABLE 2.—*Daily precipitation for August, 1911. District No. 11—Continued.*

TABLE 3.—Maximum and minimum temperatures at selected stations for August, 1911. District No. 11, California.

Date.	Lakeview, Oreg.		California.																									
			Alturas.		Barstow.		Branscomb.		Brawly.		Colusa.		Eureka.		Fresno.		Independ- ence.		Los An- geles.		Mount Tamalpais.		Nevada City.		Porter- ville.		Red Bluff.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.			81	41	107	66	86	44	106	75	89	58	59	52	100	64	97	59	84	62	72	62	93	47	100	58	97	61
2.			86	39	107	84	90	47			93	58	59	52	96	63	93	61	78	62	78	61	92	47	101	57	99	71
3.			85	42	105	65	85	44			88	57	58	51	97	65	94	59	77	61	71	45	90	47	100	60	94	66
4.			85	42	104	65	85	42			81	54	57	52	92	58	94	60	76	59	70	56	88	46	98	60	90	63
5.			83	44	107	67	87	45			84	52	55	52	93	63	75	58	68	56	91	43	96	55	91	61		
6.			87	42	107	60	88	48			89	55	59	52	96	58	92	61	76	58	75	64	91	45	100	56	93	63
7.			86	42	103	60	79	41	106	83	84	53	60	54	98	60	94	57	76	58	69	59	92	44	101	57	90	64
8.			87	39	108	62	76	40	105	65	84	52	61	54	94	59	94	54	76	58	72	55	88	45	98	59	88	58
9.			84	40	104	65	80	38	102	79	82	53	59	54	93	61	92	55	76	58	70	54	92	43	97	57	89	59
10.			87	38	105	65	80	37			84	50	57	53	92	56	88	52	77	59	69	57	87	42	96	56	90	58
11.			86	41	99	55	79	36			83	51	60	54	92	56	88	54	76	58	66	55	84	39	96	56	87	60
12.			84	34	104	54	76	37			85	52	60	53	93	57	90	52	76	55	70	57	88	40	95	56	87	57
13.			86	36	106	58	72	36			85	53	60	54	95	56	89	50	79	56	73	58	86	41	96	55	89	59
14.			81	35	102	59	70	36			90	50	61	50	94	60	89	51	83	61	64	44	87	42	95	63	86	60
15.			84	37	103	64	75	38			86	51	63	48	92	57	90	53	86	60	72	47	90	40	93	65	87	54
16.			91	30	107	63	76	42	110		84	52	64	48	95	57	94	54	83	59	76	56	90	40	96	64	92	58
17.			88	42	108	65	77	43	107	80	82	55	63	50	92	56	97	60	90	61	71	54	87	43	94	64	92	59
18.			87	36	112	69	79	44	108	83	86	53	64	50	95	58	100	53	95	64	75	57	90	40	96	61	91	60
19.			83	39	109	74	83	40	111	77	88	54	65	54	94	58	98	59	93	67	71	57	97	50	97	59	90	63
20.			83	35	110	70	85	44	107	79	91	53	64	54	96	58	95	92	86	82	60	94	38	97	55	97	61	
21.			88	37	106	66	89	48	105	79	94	55	61	54	100	58	95	59	84	62	82	67	95	42	103	60	95	60
22.			90	36	104	68	90	50			92	53	59	54	97	61	92	54	82	62	78	66	95	42	100	62	94	61
23.			89	38	102	65	92	52			89	61	60	54	97	58	92	60	79	61	82	67	95	44	98	62	96	61
24.			90	43	105	64	93	53	104	76	91	62	57	53	99	60	93	59	78	60	86	71	95	45	99	57	102	64
25.			91	37	104	64	89	46	106		89	60	55	52	100	62	93	62	81	60	78	63	90	47	102	57	96	66
Mns.			87.2	38.7	105.0	64.2	83.7	44.0	106.6		87.3	54.3	59.4	52.2	95.5	58.9	92.8	56.3	81.2	59.9	74.1	53.1	90.5	43.4	97.8	58.6	92.6	60.7

Date.	California.																		Susanville.				Yosemite.			
	Redlands.		Sacramento.		San Diego.		San Fran- cisco.		San Jose.		San Luis Obispo.		Santa Barbara.		Santa Rosa.		Sisson.		Stockton.		Summit.					
																	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	99	59	84	54	69	60	61	50	74	50	72	50	75	50	78	42	88	56	68	44	82	46	92	42		
2.	91	57	89	56	68	64	59	51	79	50	68	50	70	59	82	42	90	57	71	40	80	46	94	46		
3.	89	57	77	54	69	63	58	51	79	52	68	52	69	58	81	41	83	55	68	36	83	50	93	40		
4.	87	59	76	52	70	63	57	51	71	53	69	52	68	54	83	47	80	54	68	37	83	49	90	43		
5.	87	53	78	52	68	64	58	50	70	54	71	52	68	50	82	46	81	52	68	43	82	49	82	42		
6.	92	54	84	51	70	64	56	49	73	53	71	52	67	51	83	44	85	52	71	41	83	48	90	42		
7.	93	53	77	53	71	61	58	50	72	52	70	52	68	56	80	44	84	52	70	40	81	51	93	40		
8.	94	54	80	53	73	61	61	50	71	49	72	52	74	57	78	40	82	52	68	47	81	44	92	41		
9.	91	54	79	53	69	61	57	51	72	49	67	48	73	59	82	43	82	53	65	45	79	44	89	40		
10.	91	53	79	50	70	61	59	50	71	51	66	52	70	58	86	44	80	51	67	36	81	47	88	41		
11.	94	51	77	52	71	59	60	50	73	49	70	52	75	56	79	39	80	50	66	37	79	42	88	39		
12.	94	52	79	52	70	59	62	50	71	45	73	46	79	54	78	39	81	50	65	40	77	40	88	39		
13.	95	54	83	54	73	58	62	50	72	45	81	46	88	54	81	42	83	53	64	40	79	41	89	38		
14.	98	55	77	53	76	60	63	53	72	46	80	46	82	55	80	41	78	54	61	34	79	40	90	38		
15.	95	55	86	52	79	62	61	51	75	43	77	45	80	54	81	33	82	50	66	37	77	41	90	38		
16.	100	57	83	53	76	60	68	51	79	42	75	50	88	53	82	34	86	51	66	32	80	40	92	38		
17.	105	60	88	55	78	62	66	53	76	45	88	50	85	53	83	39	84	52	70	42	81	42	92	38		
18.	105	65	87	56	80	63	67	52	76	47	82	53	86	53	83	38	86	55	68	39	81</					